

Title (en)
ORGANIC ELECTROLUMINESCENT MATERIALS AND DEVICES

Title (de)
ORGANISCHE ELEKTROLUMINESZENTE MATERIALIEN UND VORRICHTUNGEN

Title (fr)
MATÉRIAUX ET DISPOSITIFS ÉLECTROLUMINESCENTS ORGANIQUES

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Abstract (en)

An organometallic compound including a first ligand L_A selected from is provided. In ligand L_A, each of Y¹ to Y¹⁰ is carbon or nitrogen; moiety B is a monocyclic or polycyclic fused ring structure comprising 5-membered and/or 6-membered rings; any two R_A and R_B can be fused or joined to form a ring; X is selected from O, S, Se, or NR; each R_A and R_B is independently hydrogen or a General Substituent; at least one R, R_A, or R_B is deuterium or a linking group between L_A and another ligand that includes a deuterium substituted aromatic ring; and L_A is coordinated to a metal M, selected from Os, Pd, Pt, Ir, Cu, Ag, or Au; and the compound is capable of emitting light with a peak maximum wavelength (λ_{max}) ≥ 700 nm at room temperature.

IPC 8 full level
C07F 15/00 (2006.01); **C09K 11/06** (2006.01); **H05B 33/00** (2006.01); **H10K 99/00** (2023.01)

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